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IN THE CLAIMS

(Amended) A printed textile material substrate comprising:

- (a) a textile substrate having a first side and a second side;
- (b) a UV absorber disposed on the first side of the textile substrate, said UV absorber selected from the group consisting of: benzyltriazoles, hydroxylpheenones, and dihydroxybenzylphenones; and
- (c) an ink printed image disposed upon the UV absorber adjacent to on the first side of said textile substrate.
- (Amended) A method of ink jet printing placing an image or design on a substrate to form an printed textile substrate, comprising the steps of:
 - (a) providing a textile substrate;
- (b) providing a first composition having a predetermined amount of <u>a dye</u> fixing/receiving agent and a UV absorber;
 - (c) coating a first side of saida textile substrate with said first compositiona UV absorber;
 - (d) ink jet printing anthe image or design upon said first composition adjacent said onto the first side of the textile substrate that has been coated with the UV absorber;
 - (e) producing a printed textile substrate comprising a UV absorber in a concentration of from about 0.1% to about 10% of the weight of the treated textile substrate.

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3. (New) A printed article of manufacture, comprising:

- (a) a textile substrate having a first side and a second side;
- (b) a dye fixing/receiving composition, said dye fixing/receiving composition including an amine-containing cationic compound, said dye fixing/receiving composition being disposed upon said first side of said textile substrate;
- (c) a UV absorber disposed upon said first side of said textile substrate;
- (d) an ink disposed on said first side of said textile substrate, said ink comprising an ionic dye;
- (e) wherein the amount of said UV absorber in said article of manufacture comprises from about 0.1% to about 10% by weight of the article of manufacture.
- 4. (New) The article of claim 3 wherein the UV absorber is selected from the group consisting of: azole-containing compounds and phenonecontaining compounds.
- 5. (New) The article of claim 3 wherein said UV absorber is selected from the group consisting of: benzyltriazoles, hydroxylphenones, and dihydroxybenzylphenones.
- 6. (New) The article of claim 3 wherein said ink fixing/receiving composition further comprises an agent selected from the group consisting of: silica, silicate, calcium carbonate, aluminum oxide, aluminum hydroxide, and titanium dioxide.

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 (New) The article of claim 3 wherein said amine-containing cationic compound provides a charge density of at least about 2 milliequivalents per gram.

- 8. (New) The article of claim 3 wherein said amine-containing cationic compound further comprises a reactive group selected from the group consisting of: epoxides, isocyanates, vinylsulphones, and halo-triazines.
- 9. (New) The article of claim 3 wherein said printed article of manufacture further a thermoplastic or thermosetting polymeric binder material.
- 10. (New) The article of claim 3 additionally comprising an antimicrobial agent.
- 11. (New) A printed article of manufacture, comprising
 - (a) a textile substrate having a first side and a second side;
 - (b) a dye fixing/receiving composition, said dye fixing/receiving composition including an amine-containing cationic compound, said dye fixing/receiving composition being disposed upon said first side of said textile substrate;
 - (c) a UV absorber disposed upon said first side of said textile substrate, said UV absorber being selected from the group consisting of: phenone-containing compounds and azole-containing compounds; and (d) an ink disposed upon said first side of said textile substrate, said ink comprising an ionic dye.
- 12. (New) The article of claim 11 wherein said ink fixing/receiving composition further comprises an ink receiving agent selected from the group consisting of: silica, silicate, calcium carbonate, aluminum oxide,



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aluminum hydroxide, and titanium dioxide.

 (New) The article of claim 12 wherein said ink receiving agent comprises a silica-containing composition.

- 14. (New) The article of claim 11 wherein said wherein said amine-containing cationic compound further comprises a reactive group selected from the group consisting of: epoxides, isocyanates, vinylsulphones, and halotriazines.
- 15. (New) The article of claim 11 wherein said dye fixing/receiving composition comprises from about 0.2% to about 20% by weight of the printed article of manufacture.
- 16. (New) The article of claim 11 additionally comprising a binder.
- 17. (New) The article of claim 16 wherein said binder comprises a resin.
- 18. (New) The article of claim 11 additionally comprising an antimicrobial agent.
- 19. (New) A printed article manufactured by the method comprising:
 - (a) providing a first substrate having a first side and a second side, and
 - (b) applying a treatment mixture to said first side of said first substrate, said treatment mixture comprising: (i) a reactive dye fixing/receiving composition, said dye fixing/receiving composition including an aminecontaining cationic compound, said dye fixing/receiving composition being disposed upon said first side of said textile substrate, and (ii) a UV absorber, thereby forming a treated substrate; and
 - (c) heating said treated substrate to a temperature of at least about 100 degrees Centigrade, thereby facilitating the activation and bonding of



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> said amine-containing cationic compounds to fix said amine-containing compounds upon said first substrate; and

- (d) applying an ink having an ionic dye upon said first side of said treated textile substrate to form a printed substrate, thereby facilitating chemical interaction of said ionic dye with said amine-containing cationic compound.
- 20. (New) The article according to claim 19, wherein said treatment mixture additionally comprises a binder.
- 21. (New) The article of claim 20, wherein said binder is selected from the group of binders comprising: latex binders and resin binders.
- 22. (New) The article according to claim 19 wherein said temperature is between about 100 and 150 degrees Centigrade.
- 23. (New) The article of claim 19 wherein UV absorber is selected from the group consisting of: azole-containing compounds and phenonecontaining compounds.
- 24. (New) The article of claim 19 wherein said UV absorber is selected from the group consisting of: benzyltriazoles, hydroxylphenones, and dihydroxybenzylphenones.
- 25. (New) The article of claim 19 wherein said ink fixing/receiving composition further comprises an agent selected from the group consisting of: silica, silicate, calcium carbonate, aluminum oxide, aluminum hydroxide, and titanium dioxide.
- 26. (New) The article of claim 19 wherein said amine-containing cationic



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compound comprises a charge density of at least about 2 milliequivalents per gram.

- 27. (New) The article of claim 19 wherein said amine-containing cationic compound further comprises a reactive group selected from the group consisting of: epoxides, isocyanates, vinylsulphones, and halo-triazines.
- 28. (New) The article of claim 19 wherein said article further comprises a thermoplastic or thermosetting polymeric binder material.
- 29. (New) The article of claim 19 additionally comprising an antimicrobial agent.
- 30. (New) A printed article manufactured by the method comprising:
 - (a) providing a first substrate having a first side and a second side, and
 - (b) applying a treatment mixture to said first side of said first substrate, said treatment mixture comprising: (i) a reactive dye fixing/receiving composition, said dye fixing/receiving composition including an amine-containing cationic compound, said dye fixing/receiving composition being disposed upon said first side of said textile substrate, and (ii) a UV absorber, thereby forming a treated substrate; and
 - (c) wherein said UV absorber comprises from about 0.1% to about 10% by weight of said article; and
 - (d) applying an ink having an ionic dye upon said first side of said treated textile substrate to form a printed substrate, thereby facilitating chemical interaction of said ionic dye with said amine-containing cationic compound.
- 31. (New) The article of claim 30, wherein said application step (d) comprises ink jet type printing.

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32. (New) The article of claim 30, wherein said treatment mixture further comprises a binder, said binder being selected from the group of binders comprising: latex binders and resin binders.

33. (New) The article according to claim 30 wherein following said application step (b) said treated substrate is heated to a temperature of at least about 100 degrees Centigrade.

34. (New) The article of claim 30 wherein UV absorber is selected from the group consisting of: azole-containing compounds and phenone-containing compounds.

35. (New) The article of claim 30 wherein said UV absorber is selected from the group consisting of: benzyltriazoles, hydroxylphenones, and dihydroxybenzylphenones.

- 36. (New) The article of claim 30 wherein said ink fixing/receiving composition further comprises an agent selected from the group consisting of: silica, silicate, calcium carbonate, aluminum oxide, aluminum hydroxide, and titanium dioxide.
- 37. (New) The article of claim 30 wherein said amine-containing cationic compound comprises a charge density of at least about 2 milliequivalents per gram.
- 38. (New) The article of claim 30 wherein said amine-containing cationic compound further comprises a reactive group selected from the group consisting of: epoxides, isocyanates, vinylsulphones, and halo-triazines.
- 39. (New) The article of claim 30 wherein said article further comprises a

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treated substrate; and

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thermoplastic or thermosetting polymeric binder material.

40. (New) The article of claim 30 additionally comprising an antimicrobial agent.

41. (New) A printed article manufactured by the method comprising:

(a) providing a first substrate having a first side and a second side, and

(b) applying a treatment mixture to said first side of said first substrate, said treatment mixture comprising: (i) a reactive dye fixing/receiving composition, said dye fixing/receiving composition including an amine-containing cationic compound, said dye fixing/receiving composition being disposed upon said first side of said textile substrate, and (ii) a UV absorber, wherein said UV absorber is selected from the group comprising: phenone-containing compounds and azole-containing compounds, thereby forming a

- (c) applying an ink having an ionic dye upon said first side of said treated textile substrate to form a printed substrate, thereby facilitating chemical interaction of said ionic dye with said amine-containing cationic compound.
- 42 (New) The article of claim 41, wherein said application step (c) comprises ink jet type printing.
- 43. (New) The article of claim 41, wherein said treatment mixture further comprises a binder, said binder being selected from the group of binders comprising: latex binders and resin binders.
- 44. (New) The article according to claim 41 wherein following said application step (b) said treated substrate is heated to a temperature of at least about 100 degrees Centigrade.



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45. (New) The article of claim 41 wherein said UV absorber is applied so as to result in an article having a weight of UV absorber of between about 0.1% and about 10% of the weight of the article.

46. (New) The article of claim 41 wherein said UV absorber is selected from the group consisting of: benzyltriazoles, hydroxylphenones, and dihydroxybenzylphenones.

47. (New) The article of claim 41 wherein said ink fixing/receiving composition further comprises an agent selected from the group consisting of: silica, silicate, calcium carbonate, aluminum oxide, aluminum hydroxide, and titanium dioxide.

- 48. (New) The article of claim 41 wherein said amine-containing cationic compound comprises a charge density of at least about 2 milliequivalents per gram.
- 49. (New) The article of claim 41 wherein said amine-containing cationic compound further comprises a reactive group selected from the group consisting of: epoxides, isocyanates, vinylsulphones, and halo-triazines
- 50. (New) The article of claim 41 wherein said article further comprises a thermoplastic or thermosetting polymeric binder material.
- 51. (New) The article of claim 41 additionally comprising an antimicrobial agent.

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